### **Foreword**

#### How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are terms reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

#### For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Denver, CO 80211
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 87102-3157
ldaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Bullding, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201-1080
Wyoming	Federal Bullding, 100 East "B" Street, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States Is published by the Soll Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soll Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 248, Portland, OR 97209.

#### Published by other agencies:

Water Supply Outlook Reports prepared by other agencies Include: California — Snow Survey Branch, California Department of Water Resouces, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

# Utah Water Supply Outlook

and

Federal - State - Private Cooperative Snow Surveys

#### Issued by

Wilson Scaling Chief Soil Conservation Service Washington, D. C.

#### Released by

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#### In cooperation with

Utah State Department of Natural Resources
Robert L. Morgan D. Larry Anderson
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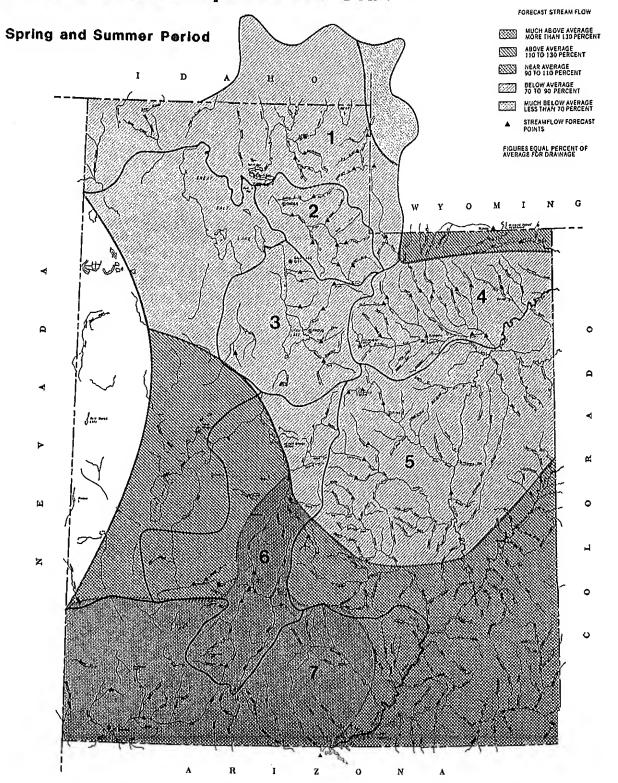
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Programs and assistance of the United States Department of Agriculture are available without regard to race, creed, color, sex, age, or national origin.

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# Streamflow Prospects for Utah



- BEAR RIVER BASIN
- WEBER & OGDEN WATERSHEDS IN UTAH
- UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
  UINTAH BASIN & DAGGET SCD'S
  CARBON, EMERY, WAYNE, GRAND & SAN JUAN CO.
  SEVIER & BEAVER RIVER BASINS
- 4
- 5
- E. GARFIELD, KANE, WASHINGTON & IRON CO.

#### GENERAL OUTLOOK

#### SUMMARY:

Snowpack accumulation in northern Utah, although improved from one month ago and greater than last year, is still generally 20 to 40% less than average. Snow accumulation in the southern half of the state, in contrast, has near to above average snow water content.

#### SNOWPACK:

Snowpack accumulation in January followed the trend of previous months. Watersheds north of approximately Spanish Fork Canyon received near to below average snow water increase while watersheds to the south received above to much above average additional accumulations. The greatest positive departure from normal occurred on the Sevier River watershed with 38% greater than normal January increase. The greatest negative departure from normal occurred on the Bear River watershed which increased 16% less than normal during January. Total snow water accumulation for the water year as of Lebruary 1 ranges from 68% of average on the Bear River watershed to 111% of average in the southwestern Utah watersheds of last Garfield, Kane, Washington and Iron counties.

#### PRECIPITATION:

Precipitation on mountain stations during January was near normal in northern Utah and above to much above normal in southern Utah. Precipitation at valley stations had a similar distribution with stations in northern Utah receiving 70-90% of average while southern stations received 130-200% of average. Water year accumulations at valley stations are near 80% in northern Utah and 150-200% of average in southern Utah.

#### RESERVOIRS:

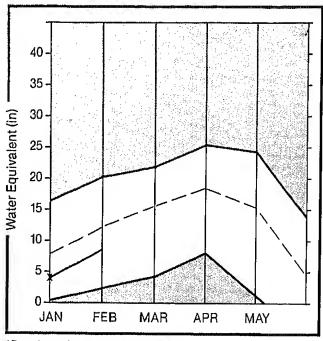
Reservoir storage at the end of January in 26 key irrigation reservoirs was 115% of average and 76% of capacity. Last year at this time these reservoirs held 85% of their cumulative capacity. Normally they are storing only 66% of capacity on this date. Reservoir operators are holding releases to a minimum in anticipation of potential low flows forecast this spring and summer on northern Utah streams.

#### STREAMFLOW:

Water supply forecasts for the upcoming irrigation season range from 60% of the April-July average on the Bear near Randolph to 143% on the Sevier below Piute Dam. Most forecasts in the northern part of the state are below to much below average. South of Gunnison (approximately) prospects improve to near to much above average with most forecasts on the upper Sevier and Virgin 30 to 40% above average. All forecasts assume normal precipitation, snow accumulation and melt from now through the end of the forecast period.

### **Bear River Basin**

### Mountain snowpack\* (inches)



\*Based on selected stations

Maximum

Average

Minimum

Current

### WATER SUPPLY OUTLOOK:

Snowpack on the Bear River watershed as of February 1 ranges from 65% on the lower Bear to 71% on the upper Snowpack accumulation during January was only 84% of normal, Accumulations during February and March would have to be 63% greater than average in order to reach average by April ! (this amount of increase would be highly unlikely). Spring and summer streamflow is forecast below to much below average. Reservoir storage is near to much above average in the reservoirs for which data are available.

For more information contact your local Soil Conservation Service Office: Tremonton Field Office 801-257-5403 Logan Field Office 801-753-5616

#### BEAR RIVER BASIN

#### STREAMFLOW FORFCASIS

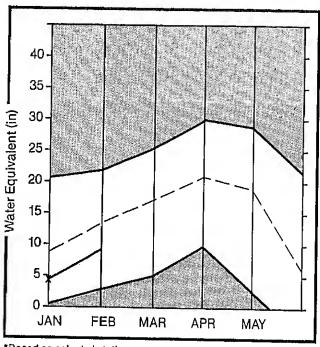
FORECAST POINT	FORECAST PERIOD	AUG.		MOST PROBABLE (% AUG.)			RFAS. M.CN. (1000AF)	RFAS. MCM. (% AVG.)		
BEAR RIVER near UT-WY Stateline	APR~.UIL	116.0	100.0	86	135.0	116	65.0	56		
BEAR near Woodruff	APR-JUL	150.0	110,0	73	175,0	130	30:0	20		
MOODRUFF CREEK near Woodruff	APR-JUL	17,3	13.8	80	20.0	116	9.0	57		
BTG CREEK near Ramiolph	APR-JUL	5,3	4,2	79	7.0	132	1:0	19		
BFAR near Randolph	APR-JUL	126.0	76.0	60	150.0	119	40.0	32		
SMITHS FORK near Border	APR-SEP	117.0	77,0	65	100.0	84	45.0	38		
THOMAS FORK near Stateline	APR-SFP	35.0	24.0	69	35.0	100	14.0	40		
BEAR RIVER near Harer	APR-SEP	310.0	185.0	60	33010	106	80.0	2.6		
CUB RIVER near Preston	APR-JUL	46.8	35.0	75	65+0	139	10.0	21		
LITTLE BEAR RIVER near Paradiso	APR-JUN	42,0	34.0	81	60.0	143	10.0	24		
LOGAN RIVER near Logan	APR-JUL	122.0	96.0	79	135.0	111	55.0	45		
BLACKSMITH FORK near Hyrum	APR-JUL	51,0	14,0	70	70.0	137	20,0	39		
	~~~~~~						~~~~~		1 = 1 M M M M = 1	1 m kd w 4 m — — —
RESERVOI	R STORAGE	(	1000AF)	   		WATERSHE	D SNOWPAC	CANALYSI S	<b>`</b>	
RESERVO (R	USEABLE 1 CAPACITY!		BLE STOPAG	E xx	HATERSHED		, NO 4	1812	YEAR	8 AS % OF
	ŀ	YEAR	YEAR	AUG,	74111.IX.910.32		Ang.		YRı	AVERAGE
BEAR LAKE	1421.0	1013.4	1052.9	987.6	BEAR RIVER	· UPPER IN	UTAH 6	150		73
HYRUK	15.3	10.1	10.7	10.3	BEAR RYUER	F LONER CALL	utan to	144		67
PORCHPINE	11.3	4,5	10,5	2,9	BEAR R. OR	AICNAGE IN 11	Tálf 15	140		49
HOODRUFF NARROWS		NO REPORT	<b>T</b>		BEAR RIVER	, MPPER	11	130		77
HONDRUFF CREEK		NO REPORT	T		BEAR RIVER	, LONER	ló	130		45
					BEAR RIVER	DRAINAGE	25	137		68)
					I OGAN RIVE	R	5	វេធ		64
					RAFT R)VFR		0	ŏ		0
					BEAR RIVER	BASIN	27	136	9.1	68

<sup>1 -</sup> Reas, max, and reas, min, forecasts are for 5% and 95% exceedance levels and also (2) below. 2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

## Weber & Ogden Watersheds

### Mountain snowpack\* (inches)



\*Based on selected stations

Maximum Average ————
Minimum Current ———

### WATER SUPPLY OUTLOOK:

February 1 snowpack on the Weber River watershed has 70% of normal water equivalent. During January, the watershed received normal snow accumulation. The likelihood of reaching average by April 1 is approximately 2 in 25 years when February 1 snowpack is as low as this year. Streamflow forecasts range from 71 to 83% of the April-June average. Reservoir storage in the Weber-Ogden basin is 104% of average and 62% of capacity. Last year at this time storage was at 80% of capacity.

For more information contact your local Soil Conservation Service Office: Layton Sub Office 801-544-9144

#### STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PFRIOD	AVG:		MOST PROBABILE (% AUG.)			RFAS. M.N. (1000AF)	REAS. MCN. (% AVG.	<b>)</b>	
SKNIH AND HOOREHOUSE CREEK near Dakl	APR-JUN	30.1	2510	83	35.0	116	15.0	50		
WERER RIVER near Oakley	APR-JUN	107,0	95.0	79	120.0	112	55.0	51		
ROCKPORT RESERVOIR Inflow	APR-JUN	120.0	9310	78	150.0	125	45.0	38		
CHALK CREEK near Coalville	APR-JUN	41.0	3310	BO	50.0	122	15.0	37		
MFBER RIVER near Coalville	APR~JUN	127,0	91.0	72	140.0	i 1.0	50,0	39		
ECHO RESERVOIR inflow	APR-JUN	163.0	125,0	77	185.0	113	70.0	43		
LOST CREEK near Croyden	APR-JUN	15.6	12,5	80	20.0	128	4.0	26		
EAST CANYON CREEK near Morgan	APR-JUN	29,0	22.0	76	35.0	121	10.0	34		
HARDSCRABBLE CREEK near Porterville	APR-JUN	18.4	1414	7R	26.0	141	5.0	27		
MERER RIVER at Gateway	APR-JUN	328.0	232.0	71	940.0	104	130,0	40		
SOUTH FORK OGDEN PIVER near Huntsvil	APR-JUN	58,0	48,0	83	70.0	121	30.0	52		
PINEVIEW RESERVOIR inflow	AF'R-JIN	122,0	87.0	73	120.0	78	50.0	41		
WHEELER CREEK near Hontsville	APR-JUN	6.3	4.8	76	6.0	95	3,0	48		
FARMINGTON CREEK near Farmington	APR-JUL	8.2	6.2		11.0	134	3.0	37		
RESERVOIR	STORAGE	(	1000AF)	1   			D SNOWPAC			
RESERVO (R	USEABLE   CAPACITY	,	PLE STORAG				жо.	TH	NS YEA	AR AS X
1/E-18/1/19/4/	1	YEAR	LAST YEAR	AUG. I	MATERSHED		COUR AVG*		ST YR	AVERA
CAUSEY	7.1	9.8	4.1	2.2	OGDEN RIVE		4	10	7	<b>6</b> 8
EAST CANYON	48.1	3210	41.9	30.7	MEBER RIVE	R	13	12	0	70
ЕСНО	73,9	53.7	6218	45.8	HERER & OG	DEN WATERSHI	EDS 17	11	6	70
OST CREEK	20.0	17.0	1475	13.1						
STNEATEN	110,1	1071	67-18	19.6						
ROCKPORT	60,9	22.2	44.3	31.9						

i - Reas. wax. and reas. win. forecasts are for 5% and 95% exceedance levels and also (2) below. 2 - Corrected for upstream diversions or changes in reservoir storage.

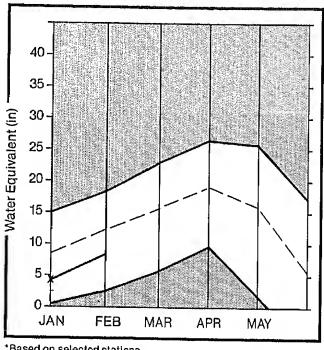
The average is computed for the 1961-85 base period.

165.5

WILLARD BAY

# Utah Lake, Jordan River & Tooele Valley

### Mountain snowpack\* (inches)



\*Based on selected stations

Maximum

Average

Minimum

Current

### WATER SUPPLY OUTLOOK:

The Provo River watershed received near normal accumulation of snow during January, Total snow water accumulation for the water year is 68% of normal for February 1. Spring and summer streamflow is forecast 62 to 92% of average. Some select forecasts are: Provo below Deer Creek Dam 75%, Utah Lake inflow 85%, Big Cottonwood Creek near SLC 82% and South Willow Creek near Grantsville 77% of the April-July average. Stored water in area reservoirs is 88% of capacity and 119% of average.

For more information contact your local Soil Conservation Service Office: Midvale Field Offcie 801-524-4373 Provo Field Office 801-377-5580

#### STREAMFLOW FORECASIS

WINCOMPLET FUNCTIONS												
FORECAST POINT	FORECAST PERSOD	25 YR. AUG. (1000AF)	8081	KOST PROBASILE	REAS. MAX.		RCAS. 100:	REAS. MCH: (% AOE.)				
SALT CREEK near Nophi	APR-SUL	13,5	11.8	87	25.0	185	5.0	37				
PAYSON CREEK near Payson	APR-JUL	7,3	5.3	75								
HABBLE CREEK near Springmille	APR-JUL	23.3	14.5	62								
PROVO near Hailstone	APR-JUL	113.0	85.0	75	130,0	115	50,0	44				
PROVO below Deer Creek Dam	APR-JUL	133.0	100.0	75	145.0	109	45.0	34				
AMERICAN FORK near American Fk.	APR-JUL	34.0	23.0	<b>68</b>	31.6	71	15.0	14				
UTAN LAKE inflow	APR-JUL	295.0	250.0	85	350.0	119	145.0	49				
CITUE COTTONWOOD CRK near SUC	APR-JUL	41,0	31,0	76	40.0	98	20.0	47				
BIC COTTONWOOD CRK near SLC	APR-JUL	39.0	32.0	82	40.0	103	25.0	64				
ARLEY'S CEEK mear SLC	APR-JUL	17.0	12,0	71	20.0	118	7.0	41.				
ITLL CREEK near SIC	APR-JUL	6,9	5,5	80	9:0	130	3,0	43				
MIGRATION CREEK near SLC	APR-JUL	1.6	3,0	<b>6</b> 5								
ITY CREEK near SLC	APR-JUL	9,0	7:0	78	9.0	100	5.0	56				
ERNON CREEK near Vernon	APR-JUN	1,2	1,1	72	2,0	167	0,4	7.9				
ETTLEMENT CREEK near locale	APR-JUL	2.9	1,9	83	3.0	130	1.0	43				
SOUTH WILLOW CREEK near Grantsville	APR-JUL	3,0	2+3	77	4.0	133	1.0	33				
RESERVOIR	SIORAGE	(	1000AF)	 		MATERSHEL	SNOWPACE	K AWALYSIS				
RESERVOTR	USEARLE I CAPACITYI		BLE STORAG LAST		HATERSHED		NO. COURS	THIS YEAR AS % OF				
14 - 7   17 7 <b>- 7</b> 13	1	YEAR	YEAR	AVG. I			AVG (					
PER CREEK	1	108/5	121.0	94.3	beunu bīnē	R & UTAH LAI	₹F 10	176 71				
RANTSVILI.E	3,3	216	216		PROVO RTUE	R	5	170 69				
ETTLEMENT CREEK	1,0	0.8	0.8	0.5	JORDAN RIV	ER & OREAT S	SALT 5	70				
FRAMBERRY-ENLARGED	951.4	476.1	531.9		INDELE & V	ERNON Wisi's	3 2	ne e				
	1		**************************************	1707								

648.6

0.,3

UTAN LA-JORDAN RA-TOOFLE 17

855.5

0.6

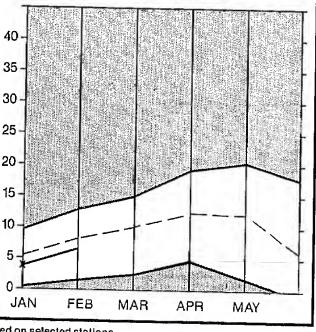
UTAH LAKE

VERNON CREEK

<sup>1 -</sup> Reas, max, and reas, min, forecasts are for 5% and 95% exceedance levels and also (2) below, 2 - Corrected for upstream diversions or changes in reservoir storage, the average is computed for the 1961-85 base period.

# Uintah Basin & Dagget SCD's

ountain snowpack\* (inches)



sed on selected stations

mum

mum

Average

Current

### ATER SUPPLY OUTLOOK:

Snow water equivalent on the Uintahs is 77% of the February average. Individual basins range from 60 to 93% of average. Accumulation was normal in January. Most streams are forecast below average flows next irrigation season. Henry's Fork, the exception, is forecast 108% of the April-September average. Reservoir storage is very good ranging from 135% of average in Moon Lake and Steinaker to 142% in Starvation. At the end of January these reservoirs are normally only holding 63% of capacity compared to 89% this year.

For more information contact your local Soil Conservation Service Office: Roosevelt Field Office 801-722-4621

#### STREAMFLOW FORECASTS

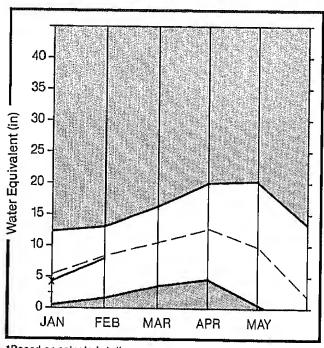
FORECAST POINT	FORECAST PERIOD	AVG i	MOST PROBABLE (1000AF)	MOST PROBABLE (% AUG.)		REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MEN. (% AVG.)
BLACK'S FORK near Hillburne	APR-JUL	90.0			120.0		50.0	56
ÆMRY'S FORK near Manila	APR-SEP	51,0	55.0	108	80.0	157	35.0	69
FLAMING GORGE RESERVOIR INFlow	APR-SEP	1441.0	1115.0	77	1550,0	108	725.0	50
ASHLEY CREEK near Vernal	ብየጽ~ ሀዛር	52.0	14.0	85	60,0	115	30.0	58
4EST FORK DUCHESNE RIVER near Hanna	APR-JUL	28.0	20.0	71	30.0	107	10.0	36
DUCHESNE RIVER near Tabiona	APR-JUL	105.0	86.0	82	110,0	105	60.0	57
ROCK CREEK near Mountain Home	APR-JUL	9510	80.0	84.	110.0	116	60.0	63
DUCHESNE RIVER near Duchesne	APR-JUL	189.0	150.0	79	200.0	106	100.0	53
CURRANT CREEK near Fruitland	APR-JUL	20.0	19.0		20.0	100	9.0	45
STRAMBERRY RESERVOOR inflow	APR-JUL	60.0	10.0	67	55.0	72	20.0	33
STRAMBERRY RIVER at Duchesne	APR-JUL	69.0	51.0	74	70.0	101	30.0	43
AKEFORK RIVER mear Mountain Home	APR-JIII.	70,0	45.0	93	90.0	127	45.0	64
ELLOWSTONE RIVER near Altonah	APR-JUL	6610	57.0	.86	80.0	121	30.0	45
NICHESNE near Myton	APR-JUL	223;0	170.0	76	250.0	112	65.0	29
IINTAH RIVER mear Neola	APR-JUL	86,0	71,0	03	110.0	128	35,0	41
HILTE ROCKS RIVER near Whiterocks	APR-JUL	60,0	48.0	80	75.0	125	20.0	33
MICHESNE near Randlett	APR-JUL	257.0	210.0	82	400.0	156	75.0	29

	RESERVO (R. STORAGE	(	1000AF)	ı	WATERSHED SNI	онраск ам	exey, IV			
RESERVO (R	USEARLE I CAPACITYI I	** USEA THIS YEAR	BLE STOR LAST YEAR	AGE **     AGE     AVG	WATERSHED	NO. COURSES AVG D	THES	YEAR A	s %	nF
FLAMING GORGE	3749.0	3102.0	3100.4		UPPER GREEN RIVER in UTAH	9				
HODN LAKE	35,8	2010	24/5	15,4	ASHLEY CREEK	2				
RED FLEET	26.0	20.3	17,12		BLACK'S FORK RIVER	3				
STE CNAKER	33.3	26.5	32.1	19,7	SHEEP OF					
STARVATION	165.3	160.7	152.1	113.0	DIN					
STRAUBERRY-ENLARGED	951.4	07611	687+0		LA <sup>te</sup>					
	TO MAKE COMMENT			34	1					
				17.00						

<sup>1 -</sup> Reas, max, and reas, min. forecasts are for 5% and 95% exceedan 2 - Corrected for upstream diversions or changes in reservoir stora; the average is computed for the 1961-85 base period.

# Carbon, Emery, Wayne, Grand, and San Juan Co.

### Mountain snowpack\* (inches)



\*Based on selected stations

Maximum	 Average	
Minimum	Current	****

### WATER SUPPLY OUTLOOK:

Southeastern Utah snowpack is generally above average in water content following January storms which increased the snowpack 30% more than usual for the month. The Abajo and ta Sal Mountains have 105%, the San Rafael watershed 93% and the Price River watershed 95% of normal February 1 water equivalent. Streams are generally forecast near normal flows this coming irrigation season. Water stored in area reservoirs is above average. Usable storage this year is 62% of capacity as of the end of January.

For more information contact your local Soil Conservation Service Office:
Price Field Office 801-637-0041

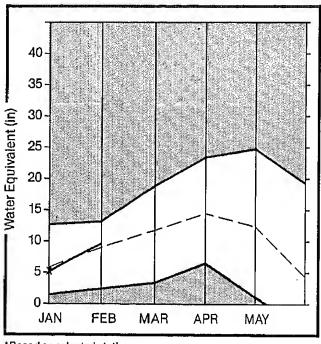
#### STREAMFI OH FORECASTS

FORECAST POINT	FORECAST PERIOD	AUC,	PROBABILE	MOST PROBABLE (% AUG.)	REAS. MAX. (1000AF)	REAS: MAX: (% AVG.)	REAS. M.CN: (1000AF)	REAS. MCN. (% <b>A</b> UG.)	1 00 TO 00 110 110 110 110 110 110 110 110 110
COLORADO near Cisco, IN	APR-JUL	3457,0	3600.0	104	5295.0	153	2250.0	<b>6</b> 5	
MILL CREEK near Moso	APR-JBL	5,5	5,6	102	8.0	143	3.0	55	
GREEN near Green Ry., UT	APR-JIII.	3182.0	2850.0	90	3900.0	123	1800.0	57	
GOOSEBERRY CREEK near Scofield	APR-JUL	12,0	10.7	91	16:0	133	6.0	50	
SCOFIFLD RESERVOIR inflow	ሐዋጽ-መ <u>ዜ</u>	46.0	38.0	83	55.0	120	75.0	54	
PRICE near Hoiner	APR+JUL	78.0	73.0	94					
FLECTRIC LAKE Inflow	APR-JUL	15.1	14.0	93	20.0	132	0.01	66	
HUNGINGTON CREEK mear Huntington	APR-JUL	55,0	49.0		70,0	127	35,0	64	
COTTONWOOD CRFFK near Orangeville	APR-JUL	47.0	44.0	94	65.0	138	25.0	53	
FERRON CREEK near Ferron	APR-JUL	41.0	35.0	85	55.0	134	15,6	37	
SEVEN MILE CREEK near Fish Lake	APR-JUL	6,5	۵,5	100	10.0	154	3.0	46	
MUDDY CREEK near Emery	APR~JUL	21.0	17.0	81	30.0	143	10,0	48	
NAVAJO RESERVOJR inflow	AFR-JUL	764.0	800.0	105	1200.0	157	490.0	64	
SAN JUAN mear Bluff, UT	APR-JUL		1100,0		<b>17</b> 25,0	159	595.0	55	
RESERVOTE		(		1 !				K ANALYSIS	
4,			ABLE STORAG				иO.	1008	YEAR AS % OF
RESERVO (R	111120440 1		LAST YFAR	AVG. I	NA CERSHED			0 1.08T	YR. AVERAGE
HUMPINGION MORTH		3,6	3.5	2,3	PRICE RIVE		3		95
JOE'S VALUEY	61,6	4315	45.9	4316	SAN RAFAEI	RIVER	7	196	93
KEN'S LAKE	2,3	0.9	0.7		HUDDY RIVE	.R	2	185	69
HILL SITE	16.7	5.3	11.3	3.5	FREMONT R	WER	4	100	74
SCOFIELD	45.8	39,5	5016	31.3	LASAL MOUN	NTAIMS	2	110	·AR
					BLUE MOUNT	амсы	7		
	1				WILLOW CRE	EEK - MIDTI	ERIVE 2		
					SOUTHEAST	ERN UTAH	21		

Reas. Max. and reas. Min. forecasts are for 5% and 95% exceedance levels and also (2) below.
 Corrected for upstream diversions or changes in reservoir storage.
 The average is computed for the 1961-85 base period.

### Sevier & Beaver River Basins

### Mountain snowpack\* (inches)



\*Based on selected stations

Maximum Ave

Average ----

Minimum

Current -

#### WATER SUPPLY OUTLOOK:

Snowpack on the Sevier River watershed increased 38% more than usual during January leaving total seasonal accumulation at 103% of the February 1 average. Percentages increase from north to south. The lower Sevier is 97%, the upper Sevier is 104% and the Beaver River watershed is 124% of average. Forecasts of spring and summer streamflows generally increase from north to south. Forecasts range from much below average in the north to much above normal in the south. Stored water is 66% above average and 77% of capacity.

For more information contact your local Soil Conservation Service Office: Richfield Field Office 801-896-6261 Fillmore Field Office 801-743-6655

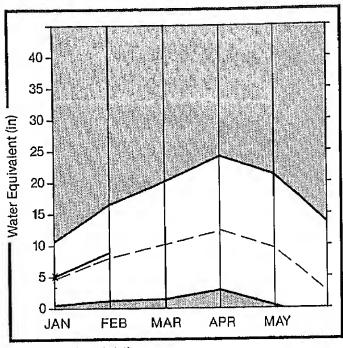
#### SIRFAMFLOW FORECASIS

FORECAST POINT	FORECAST	AUG,		MOST PROBABLE		PFAS. MAX:	REAS.	PEAS :		
	PERTOD	(1000AF)	(1000AF)	(% AVE-)	(1000AF)	(% AUE.)	(1000AF)	(% AVG.	! 	
SFVIER at Hatch	AFR-JUL	52.0	70.0	135	75.0	183	50.0	98		
SEVTER near Circleville	APR-JUL	44.0	60.0	136						
SEVIFR near Kingston	APR-JIII	34.0	45.0	137	80.0	735	70.0	59		
ANTICHONY CREEK mear Antimony	APR-JUL	8.7	10.0	112						
E F SEVOFR mear Kingston	AFR-JUL	24.0	34.0	142	55+0	229	25.0	104		
BEVCER blw Pinte Dam	APR-JUL	56,0	80.0	143	130.0	232	40.0	71		
CLEAR CREFK near Sevier	APP+JUL	22.0	27.0	123						
STGURD to GUNN (SON	APR-JUL	11,0	60,0	136	110,0	250	20.0	45		
KINGSION to VERNILLION DAM	APR-JUN	40.0	52.0	130						
VERNIULION DAN to GUNNISON	MAR-JUN	53.6	70.0	131						
SALINA CREEK at Salina	APR-JUN	18.2	15.0	82						
PLEASANT CREEK near Pleasant	APR-JIII	11.5	B.0	70						
EPHRAIM CREEK near Ephraim	APR-JUL	25.0	19,0	76						
GFV.CER or Cunnison	APR~ JUL.	99.0	170.0	121						
CHOICKEN CREEK near Lovan	APR-JUL	315	3.5	100	5.0	143	2.0	57		
DAK CREEK near Oak City	APR-JUL	116	1.5	94	3.0	188	1.0	62		
CHAIK CREEK near Fillmore	APR~JUL	16,4	16.8	102	25.0	152	10.0	61		
BEAUER RIVER near Beaver	AFR-JUL	27.0	28.0	104	50,0	105	15,0	56		
NORTH CREEK near Boaver (combined)	APR-JUL	14,6	16.0	110	30.0	205	3,0	21		
MINERSVILLE RESERVOOR inflow	APR-JUN	819	12,2	137	20.0	225	7.0	79		
PESERVOJA	STORAGE		(1000AF)	1		Natersi	HED SHUMPA	CK ANALYS	sis	
444	USEABLE		ARLE STORAG	:= **   :E **			j/(t.	11 RSES	DS YFA	R AS % 0
RESERVOOR	CAPACITY	i thes I year	LAST YFAR	AVG. I	MATERSHED				IST YR.	AUFRAG
GUNNTSON	20.3	12.74	20.3	11,7	U SEVDER	(s of Rich	(ield) (	1	10	104
MINERSVILLE (RKYFd)	26,0	16.5	18.7	11.2	EAST FORK	SEVIER RU	JER 4	1.	2	115
OCTER CREEK	52.7	1817	50.4	27 (5.)	SOUTH FORI	K SEVIÇER R	CUER 7	,	14	79
PINIE	71,8	57. <sub>1</sub> 4.	45,15	36.9	LOHER SEV	(ER ROUER	17	t t	10	77
SEVIER BRIDGE	236,0	176,9	21972	101-1	BEAUER RU	UER	:	. 2	ia 📗	124
PANGUTTCH LAKE	22.3	19.7	17.12	- <del>114</del>	SEVIER &	BEAUER R	BASINS 2	1	93	103

<sup>1 -</sup> Reas, max, and reas, min, forecasts are for 5% and 95% exceedance levels and also (2) below, 2 - Corrected for upstream diversions or changes in reservoir storage; The average is computed for the 1961-85 base period.

# E. Garfield, Kane, Washington, & Iron Co.





\*Based on selected stations

Maximum	
,	200000000

Average ----

Minimum

Current

### WATER SUPPLY OUTLOOK:

Increases to the snowpack in southwestern Utah were one-fifth greater than normal in January. February water content ranges from 110% of average on the Virgin River to 125% on Coal Creek. Forecasts of flow for this irrigation season on local streams range from 130% of average on Coal Creek to 140% on the Virgin and Santa Clara. Lake Powell Inflow is forecast 93% of average. Quail Creek Reservior is 95% Full and Gunlock 72%. The Enterprise Reservoirs have only 6% of capacity in storage (22% of last year).

For more information contact your local Soil Conservation Service Office:
Cedar City Field Office 801-586-2429

#### STREAMFLOW FORECASTS

FORECAST POINT	FORECAS) PERIOD	AUG.	MOST PROBABLE (1000AF)			RFAS. MAX. (% AUG.)	FFAS. MCN. (1000AF)	REAS. HCN. (% AVG	,)	
LAKE POWELL inflow	APR-JUL	8044.0	7500.0	93	10940.0	136	4445.0	55		
VCRGCN near Horricane	APRIIIN	48.0	95.0	140	130.0	191	40.0	ዘብ		
SANTA CLARA near Pine Valley	APR-JUN	5.0	7.0	140						
COAL CREEK near Cadar City	APR-JUL	20.0	26,0	130	35.0	175	20.0	100		
RESERVATE	STORAGE	, que pois mais lant cans toler ands mais toler to	(1000AF)	     		VATERSI	HED SWOWPA	CK ANALY	ទាន	
RESERVOR	NSFABLE I		ABLE SIOPA LAST YEAR	GF ** 1 BF ** 1	WATERSHED		#() . COU! AVG	rses -		AR AS % OF
COM OCK	10,4	7:5	5.4		UIRGIN RIV	)FR	5		15	_ i10
LAKE POWELL	25002,0	0,0	2177810		PAROHAN		4	1	99	112
QUASI CREEK	40,0	38.0			ENTERPRISE	E TO NEW H	ARMONY 2	1	16	114
UPPER ENGERPRISE	<del>***</del> → ** **	0.0	0,0	0.0	COAL CREEK	<	3		98	125
LOWER ENTERPRISE		0.0	0.0	0,0	ESCALANTE	RIVER	S		77	120
					SOUTHWEST	FRN WAH	i7		254	in i

<sup>1 -</sup> Reas, max, and reas, min. forecasts are for 5% and 95% exceedance levels and also (2) below.
2 - Corrected for upstream diversions or changes in reservoir storage.
The average is computed for the 1961-85 base period.

# SNOW MEASUREMENT DATA

SNOW COURSE	ELEV.	DATE	DEFTH	CONTENT	YEAR	1961-85
			mind between burn but and devel devel devel	trian over more tree tree of the date to		10.5
ASHLEY TWIN LAKES	10500			gur "nt. kin		
ATWOOD LAKE	10500	01/25	**	O.ZE	5.6	(.5
BEAVER CREEK DIVIDE	8280	01/25	26	6.DE	Zal.	
BEAVER DAMS	8000	01/25	•••	6.5E	1.4	(n (
BEN LOMOND PEAK		01/25	a4	14.3E	18.4	23.6
BEN LOMOND TRAIL			-	8.4E		
BEVAN'S CABIN	6450				7.6	5.5
BIG FLAT						
BIRCH CROSSING				6.2		
BLACK'S FLAT-U.M. CK				5.5E		
BLACK'S FORK				6.0E		
BLACK'S FORK GS-EF				4.6E		
BLACK'S FORK JUNCTN				5.9E		
BOX CREEK	9300	01/25		8.9E	2.8	8.3
BRIAN HEAD	10000	01/25				
BRIGHTON				10.5E	***	22.9
BROWN DUCK RIDGE	10600	1/25		10.3E	11.3	13.2
BRYCE CANYON	8000			3.6	1.9	3,4
BUCK FLAT	9800	01/25	rt op	8.5E	5.0	11.0
BUCK FLAT BUCK PASTURE	9700				-	11.8
BUCKBOARD FLAT	9000	02/02	33	9.0	7.1	8.4
BUG LAKE	7080	01/25	ii.e	9.4E		
BURT'S-MILLER RANCH	7900	01/25	3000	3.1E		
CAMP JACKSON CASTLE VALLEY CHALK CREEK #1	8600	2/02	34	9.8	6.2	9.3
CASTLE VALLEY	9580	01/25	****	9 FIF	al (9)	□ 1
CHALK CREEK #1	9100	01/25		12.4E	10.1	14.8
CHALK CREEK #2	8200	01/25		7.7E	6.7	9.6
CHALK CREEK #3	7500	01/25		5.2E	3.4	5.5
CASTLE VALLEY CHALK CREEK #1 CHALK CREEK #2 CHALK CREEK #3 CHEPETA	10300	01/25	+100	12.4E 7.7E 5.2E 5.8E	5.9	9.1
CHEPETA-WHITERKS. LK CLEAR CREEK MEADOWS CLEAR CREEK RIDGE #1 CLEAR CREEK RIDGE #2 CLEAR CREEK RIDGE #3 CURRANT CREEK	10350				***	9.6
CLEAR CREEK MEADOWS	9420	2/01	444	9.3E	<b>1P</b> *	15.2
CLEAR CREEK RIDGE #1	9200	01/25	****	8.2E	5.2	12.5
CLEAR CREEK RIDGE #2	8000	01/25	b)-4	6.2E	3.5	9.8
CLEAR CREEK RIDGE #3	6600	01/25	ets)	4.0E	1.9	Fi . 7
CURRANT CREEK	8000	01/25	***	3.7E	0.3	7.4
DANIELS-STRAWBERRY	8000	01/25		6.2E	2.0	10.2
DESERET PEAK	9250				8.9	17.5
DILL'S CAMP	9200	01/25	erob	5.3E	2.6	7.9
DONKEY RESERVOIR	9800	01/25		5.OE	8.8	4.8
DRY BREAD FOND	8350	01/25	to the	8.7E	8.6	12.2
DUCK CREEK R.S.	8700	1/25	part .	6.7E	3.8	8.8
EAST SHINGLE LAKE	9800				p=	18.4
EAST WILLOW CREEK	8250	01/25		5.9E	**	7.9
FARMINGTON CANYON	8000	01/25	***	12.6E	10.3	19.7
FARMINGTON CANYON L.	6950	01/25	1.44	10.1E	8.4	14.9
FARNSWORTH LAKE	9600	01/25	time .	10.7E	9.3	11.9
FISH LAKE	8700	01/25	•••	5.7E	3.8	5.6
FIVE POINT LAKE	11000	01/25	***	8.7E	7.9	10.1
G.B.R.C. HEADQUARTER	8700	01/25		11.3E	5.8	10.4
G.B.R.C. MEADOWS	10000	01/25		15.9E	8.7	14.4
					<del></del>	** [ = 1

# SNOW MEASUREMENT DATA (cont.)

SNOW COURSE						
GARDEN CITY SUMMIT						
GEORGE CREEK	$\odot \odot A \cap$					4.4 (2)
GOOSEBERRY R.S.	8000	01/25 01/25 01/25 01/25	Hel	10.3E	7.4	7.4
HARDSCRABBLE	6700	01/25	***	9.4	4.2	13.5
HARRIS FLAT	7700	01/25		4 OF	1.5	F 0
HAYDEN FORK	9400	01/25		7 FF	5.4	9.8
HENRY'S FORK	10000	-W- 16 8 1010 1.21		€ H *tet*3tue		9.5
HEMINTA G.S.	9500	01/25 01/25 01/25 01/25 01/25 01/25 01/25 01/25 01/25 01/25 01/25 01/25 01/25 01/25 01/25 01/25	***	e oc	a o	2 · · ·
HOLE-IN-THE-ROCK	9150	01/25	_	A SE	7.7 2 0	ω• ± 4 Δ
HOLE-IN-THE-ROCK GS	8300	01/25		7.05	16. u ×	1 77
HICKERSON PARK	9100	75.4 7 mm		6 OF	4 0	Lef
HOBBLE CREEK SUMMIT	7420	01/20	_	O. V.	4 3	0.0
HORSE RIDGE	C TELLO CONTRA CA	OTABLE		( a ( E	4 * 4.	10.2
HUNTINGTON-HORSESHOE	02.00	U1720		7 . 7 C.	8.8	14.5
	2000	1740	**	10.35	7.5	10.1
INDIAN CANYON	3100	01/25	•••	6.7E	5.8	8.4
JOHNSON VALLEY	3500	01/25	*1.00	O.lm	2.7	5.0
KILFOIL CREEK	7300	01/25	444	6.8E	6.1	A. 8
KIMBERLY MINE(UPPER)	9300	01/25	ra .	10.6E	8.0	7.8
KING'S CABIN (UPPER)	8730	01/25		Z,9E	4.3	6.9
KLONDIKE NARROWS	7400	01/25	***	8.8E	5.6	13.4
KOLOB-CRYSTAL	9250	01/25	je st	16,4E	4.1	13.9
LAKEFORK BASIN	11100	01/25	***	7.4E	9.6	13.2
LAKEFORK MOUNTAIN #1	10200	01/25	(in)	7,0E	5.3	7.2
LAKEFORK MOUNTAIN #3	8400	01/25	***	4.1E	1.8	4.6
LAMBS CANYON	7400	1/26	33	8.8	7.8	11.3
LASAL MOUNTAIN LOWER	8800	2/02	26	7.2	6.0	6.5
LASAL MOUNTAIN (UPP)	9850	2/02	42	11.2	10.8	11.1
LIGHTNING LAKE	10500	2/02 01/25 01/25 01/25 01/25 01/25 01/25 1/25	**	13.1E	9.4	15.2
LILY LAKE	9050	01/25	-	6.1E	5.2	9.6
LITTLE BEAR (LOWER) LITTLE BEAR (UPPER)	6000	01/25	114	5.OE	4.0	7.7
LITTLE BEAR (UPPER)	<b>6550</b>	01/25		5.6E	4.5	8.7
LITTLE BEAR (UPPER) LITTLE GRASSY CREEK LONG FLAT	6100	01/25	***	4.6E	1.0	3.6
LONG FLAT	8000	01/25		5.1E	3.5	4.9
LONG VALLEY JOT.	7500	1/25	2000	1.45	0.4	4.3
LOST CREEK RESERVOIR	6130	01/25	~	2.6E	2.1	4 . 1
MAMMOTH-COTTONWOOD	8800	01/25	Pres	13,3E	5.6	14.0
MERCHANT VALLEY (UP)	8750	01/25		8.9E	1.9	7.7
MIDDLE BEAVER CREEK	8650	* D. 7 CA			***	3.0
MIDDLE CANYON	7000				8.8	8.7
MIDWAY VALLEY	9800	01/25	Man	17.4E	9.0	13.4
MILL CREEK	6950	01/28	32	9.1	10.2	12.3
MILL D SOUTH FORK	7400	01/28	32	9.0	10.0	13.0
MONTE CRISTO R.S.	8960	01/25	•ur live	12.3E	6.4	16.1
MOSBY MOUNTAIN(LOW)	9500	01/25		5.0E	3.1	6.5
MT.BALDY R.S.	9500 9500	01/25	He	12.4E	7.6	15.3
MUD CREEK #2	8600	01/25		8.4E	3.7	10.3 9.2
OAK CREEK	7760	01/25	· · ·	6.1E		
ONE MILE SUMMIT	7330	CATA WELL	<del></del>	G . J.C.	3.6	7.9
		4.7章概		4 75 "712"		3.8
OTTER LAKE	9600	1/25	***	10.7E	6.0	8.4

# SNOW MEASUREMENT DATA (cont.)

SNOW COURSE	ELEV.		DEFTH	WATER CONTENT	YEAR	
PANQUITCH LAKE	8200	01.72B	w=	4.1E	1 7	A 1
PARADISE PARK PARLEY'S CANYON SUM.	10100	01/25		5.5E	F1.3	9.2
PARLEY'S CANYON SUM.	7500	1/26	34	9.1	8.3	12.4
PAYSON R.S.	8050	01/25		10.4E	5.0 F 2	12.2
PICKLE KEG SPRING		01/25		8.2E		
	8000	01/25		8.OE	7.1	
	8800	01/25			3.5	
REDDEN MINE LOWER						
RED FINE RIDGE		01/25	**	7,5E	6.7	11.5
MED FINE KILDE	9200	01/25	-	10.1E	6.4	
REES'S FLAT	7300	01/25	444	8.4E		8.8
REYNOLDS PARK						10.7
	7900	01/25	-	4.7E	0.7	5.7
ROCKY BASIN-SETTLEMT		01/25	-	9.5E	12.4	18.9
SEELEY CREEK R.S.		01/25	****	11.4E	4.0	10.3
SERGEANT LAKES	8300				***	11.2
SHINGLE MILL		01/28	28	7.1	2.9	6.4
SILVER LAKE(BRIGHT.)		01/28	34	9.6	10.6	
	7600	01/25	***	5.8E	5.2	
SNOWBIRD GAD VALLEY		01/29	45	13.0		
SOAPSTONE R.S.	7800	1/25	•••	13.0 6.5E 5.0C	2.7	8.5
SPIRIT LAKE	10300	01/25	Au	5.9E	8.5	7.8
SQUAM SPRINGS	9300	01/25	n.		1.2	4.7
STEEL CREEK PARK	10100	01/25			10.7	10.5
STILLWATER CAMP	2550		···•	5.3E	3.5.	7.0
STRAWBERRY DIVIDE		1/29		9.9	5.7	
	7950		-	5.7E		
SUSC RANCH	8200		27	6.3	2.0	6.2
TALL POLES	8800		38		L. Ci	5.8
THAYNES CANYON	9200		39	Va (	4.9	
THISTLE FLAT	8500	C7 3. 7 22.42	-30°57	3.0	11.5	a-1
TIMPANOGOS DIVIDE	8140	01/25	***	at at prongence	***	9.9
TONY GROVE LAKE	8400			ba) det al .me. (077)		16.9
TONY GROVE R.S.	6250		hat		9.5	24.2
TRIAL LAKE	9960		***	5.7E	3.3	
		01/20	phot	11.3E		
UPPER JOES VALLEY		01/25		5.4E	3.1	7.0
VERNON CREEK	8900	01/25	***	7.7E	3.1	7.0
VIPONT	7500 7770	01/25	-	5.2E	3.1	7.7
WEBSTER FLAT	7670				1+4	10.1
	9200	01/25		13.8E	1.8	10.9
WHITE RIVER #1	8550	01/25	-	7.6E	3.8	9.4
WHITE RIVER #3	7400	01/25	-	7.6E	2.1	6.3
WIDTSDE-ESCALANTE #3	9500	01/25	b==	9.3E	9.8	7.1
WRIGLEY CREEK	9000	01/25	-	5.5E	2.7	7.1
YANKEE RESERVOIR	8700	01/25	puma.	7.1E	4.1	ં.1
						······································

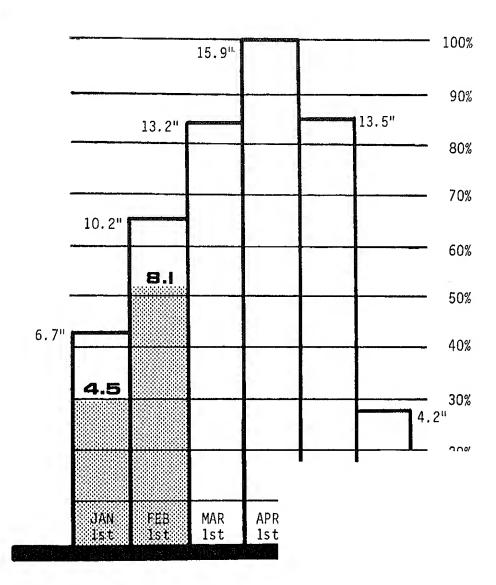


# **Utah Snowpack Progress**

Soil Conservation Service

Salt Lake City, Utah 1988



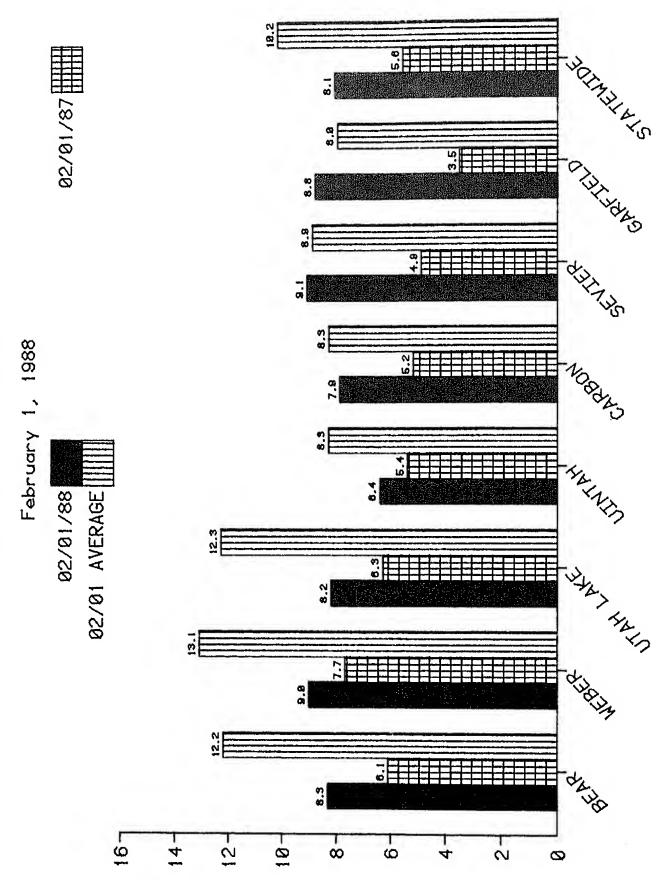


# **Statewide**

NOTE:

Snow water equivalent in inches is amount ( 100% ). Monthly average

Averages are for the period 1961-



MAHMA OOZHMAH HZOTMO

# The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

#### State

Utah State University
Utah State Department of Natural Resources
Division of Wildlife Resources
Division of Water Resources
Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

#### Federal

- U.S. Department of Agriculture Soil Conservation Service Forest Service
- U.S. Department of Commerce NOAA, National Weather Service
- U.S. Department of Interior Bureau of Reclamation Geological Survey National Park Service

#### Municipality

Manti Salt Lake City

#### Public

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Central Utah Conservancy District
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association
Weber River Water Users Association
Weber Basin Conservancy District

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

All programs and services of U.S. Dept. of Agriculture are available to everyone without regard to race, creed, color, sex, age, handicap, or national origin.